



IFU

16328

PATENT
Customer No. 22,852
Attorney Docket No. 9960.0002-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Keith Henry Stockman Campbell et al.) Group Art Unit: 1632
Serial No.: 09/225,233) Examiner: D. Crouch
Filed: January 4, 1999) Confirmation No.: 2711
For: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

BEST AVAILABLE COPY

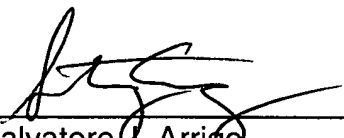
Sir:

SUBMISSION OF TERMINAL DISCLAIMERS

Applicants submit herewith three (3) Terminal Disclaimers in the above-referenced application. Please associate these papers with the above-identified application. The requisite fee of \$390.00 is enclosed.

Respectfully submitted,

Dated: March 31, 2006

By: 
Salvatore J. Arrigo
Reg. No. 46,063
Telephone: 202-408-4160
Facsimile: 202-408-4400
E-mail: arrigos@finnegan.com



PATENT
Customer No. 22,852
Attorney Docket No. 9960.0002-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Keith Henry Stockman Campbell et al.) Group Art Unit: 1632
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For: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

TERMINAL DISCLAIMER

Assignee, Roslin Institute (Edinburgh), represents that it is the assignee of the entire right, title and interest in and to the instant application, Application No. 09/225,233, filed January 4, 1999, as evidenced by assignments recorded at Reel 8622, Frames 0299-300 (copy attached); Reel 9219, Frames 0945-0951 (copy attached); and by an assignment attached hereto.

Assignee, Roslin Institute (Edinburgh), further represents that it is the assignee of the entire right, title and interest in and to U.S. Patent No. 6,525,243, as evidenced by assignments recorded at Reel 8582, Frames 0263-0264 (copy attached); Reel 9220, Frames 0250-0256 (copy attached)); and by an assignment attached hereto.

To obviate a double patenting rejection, assignee hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory

term defined in 35 U.S.C. §§ 154 to 156 and 173, as presently shortened by any terminal disclaimer, of prior patent No. 6,525,243. Assignee hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

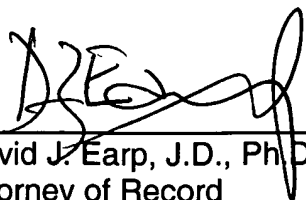
In making the above disclaimer, Assignee does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. §§ 154 to 156 and 173 of the prior patent, as presently shortened by any terminal disclaimer, in the event that the prior patent later expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or in part, is terminally disclaimed under 37 C.F.R. § 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

In accordance with the fee schedule set forth in 37 C.F.R. § 1.20(d), the required fee of \$130.00 is being filed with this disclaimer.

The undersigned is an attorney of record.

Respectfully submitted,

Dated: March 17, 2006

By: 
David J. Earp, J.D., Ph.D.
Attorney of Record
Reg. No. 41,401
Tel: (650) 473-7721
Fax: (650) 473-8654



08-07-1997

RECEIVED

JUL 29 1997

FORM PTO 1500
1-11-97

DOCKET NO.: 2980-004




100505082

RECEIPT ACCTG. DIV.

DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies) Keith Henry Stockman CAMPBELL and Ian WILLIAMS MRD 07-29-97 Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies) Name: <u>Roslin Institute (Edinburgh)</u> Internal Address: Street Address: <u>Roslin</u> City: <u>Midlothian EH12 9PS</u> State/Country: <u>GREAT BRITAIN</u> ZIP: Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <u>May 23, 1997</u>			
4. Application number(s) or patent number(s) If one document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s) <u>08/002,282</u> , filed February 19, 1997 B. Patent No(s). Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed Name: <u>LOWE PRICE LEBLANC & BECKER</u> Internal Address: Street Address: <u>90 Canal Center Plaza, Suite 300</u> City: <u>Alexandria</u> State: <u>VA</u> ZIP: <u>22314</u>		6. Total number of applications and patents involved <u>1</u> 7. Total fee (37 CFR 3.11) <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>12-2237</u>	
DO NOT USE THIS SPACE			
9. Statement and signature <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> Robert L. Price 22685 Name and Registration No. of Person Signing  Signature July 29, 1997 Date Total number of pages comprising cover sheet: <u>1</u>			

08-07-1997 08:00:00 PM 100505082 08002282
40.00 - 00PATENT
REEL: 8622 FRAME: 0299

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned:

I, Keith Henry Stockman Campbell
Jan Wilmut
 of _____

do hereby make a certain new and useful invention, hereby sell, assign and transfer unto

Roslin Institute (Edinburgh), Roslin, Midlothian EH25 9PS, Great Britain

its successors and assigns hereinafter designated "ASSIGNEE" the entire right, title and interest for the United States of America as defined in 35 U.S.C. 101 in the invention entitled:

QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

for which an application for United States Letters Patent was filed on February 19, 1987, and identified by United States Serial No. 08 802,282, or

for which an application for United States Letters Patent was executed on May 22 1987

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorney(s) of record in said application shall hereafter act on behalf of said ASSIGNEE.

AND the undersigned hereby agree to transfer all interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated beside our signatures:

INVENTORS

DATE SIGNED

1. Name: Keith Henry Stockman Campbell
 2. Name: Jan Wilmut
 3. Name:
 4. Name:
 5. Name:
 6. Name:

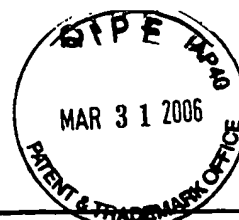
May 23 1987

06-10-1998



100733738

RECORDATION

FOR 4 PTO-1596
1-31-92

DOCKET NO.: 2980-004

PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of conveying party(ies):
ROSLIN INSTITUTE (EDINBURGH)

2. Name and address of receiving party(ies):

Name: Roslin Institute (Edinburgh)

Internal Address:

Additional name(s) of conveying party(ies) attached? Yes X No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other
Street Address: RoslinCity: Midlothian EH25 9PS State/Country: GREAT BRITAIN ZIP:Execution Date: March 26, 1998 and April 7, 1998Additional name(s) & address(es) attached? X Yes ☐ No

4. Application number(s) or patent number(s):

If the document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s). 08/803,282, filed February 19, 1997

B. Patent No(s).

Additional numbers attached? Yes X No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Gilberto M. Villacorta, PEPPER HAMILTON LLP

Internal Address:

Street Address: 1300 Nineteenth St. N.W.City: Washington, D.C.

State:

ZIP: 200366. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

50-0436

06/08/1998 DR JUYEN 00000167 500436 08803282

DO NOT USE THIS SPACE

01 FC:581 40.00 CH

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gilberto M. Villacorta, 34,038

Name and Registration No. of Person Signing

Signature

May 29, 1998

Date

Total number of pages comprising cover sheet: 2

CIB No. 0851-0011 (exp. 4/94)

Document # 71087

PATENT
REEL: 9219 FRAME: 0945

MRD 5-29-98

DOCKET NO.: 2980-004

Continuation of Recordation Cover Sheet, Item # 2:

The Minister of Agriculture, Fisheries and Food
Notel House
17 Smith Square
London, SW1P 3JR

Bio-technology and Biological Sciences Research Council
Polaris House
North Star Avenue
Swindon, SN2 1UH

PATENT
REEL: 9219 FRAME: 0946



PATENT ASSIGNATION

by

(1) ROSLIN INSTITUTE (EDINBURGH).

in favour of

**ROSLIN INSTITUTE (EDINBURGH); THE MINISTER OF AGRICULTURE,
FISHERIES AND FOOD; and BIOTECHNOLOGY and BIOLOGICAL SCIENCES
RESEARCH COUNCIL**

1998


**Wright Johnston & Mackenzie
Solicitors
12 St Vincent Place
Glasgow G1 2EQ**

(Ref: A00020016/KMC/JCH)

**PATENT
REEL: 9219 FRAME: 0947**

PATENT ASSIGNATION

by

- 
- (1) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("the Assignor")

in favour of

- (2) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS and **THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD** of Nobel House, 17 Smith Square, London, SW1P 3JR acting through the Ministry of Agriculture, Fisheries and Food; and **BIOTECHNOLOGY and BIOLOGICAL SCIENCES RESEARCH COUNCIL**, whose principal office is at Polaris House, North Star Avenue, Swindon, SN2 1UH (collectively referred to as "the Assignees")

WHEREAS

- (A) The Assignor is the proprietor of the Patent Applications set out in the Schedule annexed and executed as relative hereto (the "Patent Applications");
- (B) The Assignor has agreed to assign the Patent Applications to the Assignees; and
- (C) The Assignees have agreed to hold the Patent Applications and any granted patents issuing from such applications subject to a Co-Ownership Agreement to be entered into of even date herewith by the parties to this Agreement.

NOW IT IS HEREBY AGREED as follows:-

1. Assignment

The Assignor hereby assigns to the Assignees as joint owners the entire right, title and interest of the Assignor in and to the Patent Applications and any patents or other similar forms of protection granted pursuant to the Patent Applications together with the right to recover and to take all such proceedings as may be necessary for the

recovery of damage and other forms or relief in respect of all infringements of the Patent Applications whether taking place before or after the date of this Assignment.

2. Further Assurance

Each party agrees generally to sign, seal, execute and deliver all documents, deeds, licences and agreements and to do all acts and things which may be required or may be deemed necessary that any party for giving effect to this Assignment including, without limitation, entry into instruments confirmatory of such rights for registration with appropriate authorities anywhere in the world.

3. Governing Law

This Agreement shall be governed by Scots Law and the parties agree to submit to the non exclusive jurisdiction of the Scottish Courts: IN WITNESS WHEREOF these presents consisting of this and the preceding page together with the Schedule annexed hereto are executed as follows:-

Subscribed for and on behalf of BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL by Scott McGregor Lawrie their duly authorised signatory at London on 26th March 1998 before the following witness:-

Witness: Justine A. Strong
 Full Name: JUSTINE ANN STRONG
 Address: 12, ST VINCENT PLACE
GLASGOW
 Occupation: TRAINER SOLICITOR

Scott McGregor Lawrie
 Authorised Signatory

Subscribed for and on behalf of THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD by Dr Anthony Richard Burne, duly authorised signatory at London on 26th March 1998 before the following witness:-

Witness: Marglyn Wicks
 Full Name: MRS. MARYLON WICKS
 Address: ST. CHRISTOPHER HOUSE
SOUTHWARK ST, LONDON
 Occupation: CIVIL SERVANT.

Dr Burne
 Authorised Signatory

PATENT

REF.: 9219 FRAME: 0949

Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by Professor
Grahame John Bulfield, Director and Chief Executive, at Roslin on 7th April
1992 before the following witness:-

Witness: Claire A. Noh

Full Name: C. L. B. ANNE NEILSON

Address: 12 ST VINCENT PLACE

GLASGOW

Occupation: SOLICITOR

Grahame Bulfield

This is the Schedule referred to in the Assignment by (1) Roslin Institute (Edinburgh) in favour of (2) Roslin Institute (Edinburgh); The Minister of Agriculture, Fisheries and Food; and Biotechnology and Biological Sciences Research Council

1. Inactivated Oocytes and Cytoplasm Recipients for Nuclear Transfer (MAGIC)

Filing Date	Priority Date	Country	Application No
30 th August 1996	31 st August 1995	International	PCT/GB96/02098
30 th August 1996	31 st August 1995	South Africa	96/7383
30 th August 1996	31 st August 1995	USA	08/803,165

International Patent Application - proceeding in:

Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

2. Quiescent Cell Populations for Nuclear Transfer (Quiescence)

Filing Date	Priority Date	Country	Application No
30 th August 1996	31 st August 1995	International	PCT/GB96/02099
30 th August 1996	31 st August 1995	South Africa	96/7390
30 th August 1996	31 st August 1995	USA	08/802,282

International Patent Application - proceeding in:

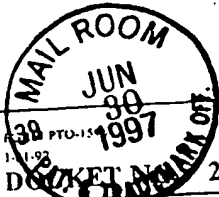
Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

Scott M. Levine

Alma

RECORDED: 03/29/1998

PATENT
REEL: 9219 FRAME: 0951



07-14-1997



100454558

DEPARTMENT OF COMMERCE
Patent and Trademark Office38 PTO-154
1-1-92
DOCKET NO. 2980-003

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of conveying party(ies):

Keith Henry Stockman CAMPBELL and Ian WILLIOT

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: May 13, 1997

2. Name and address of receiving party(ies):

Name: Roslin Institute (Edinburgh)

Internal Address

Street Address: Roslin

City: Midlothian EH25 9J'S State/Country: GREAT BRITAIN
ZIP:Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If the document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s). 08/803,165, filed February 19, 1997

B. Patent No(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: LOWE PRICE LEBLANC & BECKER

Internal Address:

Street Address: 99 Canal Center Plaza, Suite 300

City: Alexandria State: VA ZIP: 22314

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

12-2237

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robert L. Price, 22,685

Name and Registration No. of Person Signing

Signature

June 30, 1997

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

07/10/1997 TTOM11
01 FC:58100000035 DAN:122237 08803165
40.00 CHPATENT
REEL: 8582 FRAME: 0263

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) Keith Henry Stockman Campbell
 (2) Ian Wilmut
 (3) _____

(4) _____
 (5) _____
 (6) _____

who have made a certain new and useful invention, hereby sell, assign and transfer unto

Roslin Institute (Edinburgh), Roslin, Midlothian EH25 9PS, Great Britain

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

(a) for which an application for United States Letters Patent was filed on February 19, 1997, and identified by United States Serial No. 08/803,165; or

(b) for which an application for United States Letters Patent was executed on May 13th 1997

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

1) _____
 Name: Keith Henry Stockman Campbell *KH Campbell*
 2) _____
 Name: Ian Wilmut *I Wilmut*
 3) _____
 Name: _____
 4) _____
 Name: _____
 5) _____
 Name: _____
 6) _____
 Name: _____

_____ *13.05.97.*
 _____ *May 13 1997*

RECORDED: 06/30/1997

PATENT
 REEL: 8582 FRAME: 0264

MRD 5-29-98

06-10-1998

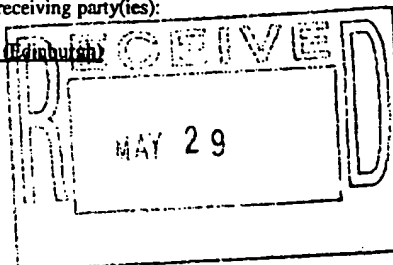
FORM PTO-1596
1-31-92U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

DOCKET NO.: 2980-003

100733314

To the Honorable Commissioner of Patents and Trademarks Original documents or copy thereto:

1. Name of conveying party(ies): ROSLIN INSTITUTE (EDINBURGH) Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: March 26, 1998 and April 7, 1998	2. Name and address of receiving party(ies): Name: <u>Roslin Institute (Edinburgh)</u> Internal Address: Street Address: <u>Roslin</u> City: <u>Midlothian EH25 9PS</u> State/Country: <u>GREAT BRITAIN</u> ZIP: Additional name(s) & address(es) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---



4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: A. Patent / application No(s). 08/803,165, filed February 19, 1997 B. Patent No(s). Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Gilberto M. Villacorta, PEPPER HAMILTON LLP</u> Internal Address: Street Address: <u>1300 Nineteenth St., N.W.</u> City: <u>Washington, D.C.</u> State: <u></u> ZIP: <u>20036</u>	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>50-0436</u>

06/08/1998 DMSOTEN 00000171 300438 08803165

01 FC:581 40.00 CH

DO NOT USE THIS SPACE

9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <u>Gilberto M. Villacorta, 34,038</u> Name and Registration No. of Person Signing <u>Gilberto M. Villacorta</u> Signature May 29, 1998 Date Total number of pages comprising cover sheet: <u>2</u>	
CMB No. 0851-0011 (exp. 4/94)	

Document # 71087

PATENT
REEL: 9220 FRAME: 0250



DOCKET NO.: 2980-003

Continuation of Recordation Cover Sheet, Item # 2:

The Minister of Agriculture, Fisheries and Food
Nobel House
17 Smith Square
London, SW1P 3JR

Biotechnology and Biological Sciences Research Council
Polaris House
North Star Avenue
Swindon, SN2 1UH



PATENT ASSIGNATION

by

(1) ROSLIN INSTITUTE (EDINBURGH),

in favour of

**ROSLIN INSTITUTE (EDINBURGH); THE MINISTER OF AGRICULTURE,
FISHERIES AND FOOD; and BIOTECHNOLOGY and BIOLOGICAL SCIENCES
RESEARCH COUNCIL**

1998

Wright Johnston & Mackenzie
Solicitors
12 St Vincent Place
Glasgow G1 2EQ

(Ref: A00020016/KMC/JCH)

PATENT
REEL: 9220 FRAME: 0252

PATENT ASSIGNATION

by



- (1) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("the Assignor")

in favour of

- (2) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS and **THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD** of Nobel House, 17 Smith Square, London, SW1P 3JR acting through the Ministry of Agriculture, Fisheries and Food; and **BIOTECHNOLOGY and BIOLOGICAL SCIENCES RESEARCH COUNCIL**, whose principal office is at Polaris House, North Star Avenue, Swindon, SN2 1UH (collectively referred to as "the Assignees")

WHEREAS

- (A) The Assignor is the proprietor of the Patent Applications set out in the Schedule annexed and executed as relative hereto (the "Patent Applications");
- (B) The Assignor has agreed to assign the Patent Applications to the Assignees; and
- (C) The Assignees have agreed to hold the Patent Applications and any granted patents issuing from such applications subject to a Co-Ownership Agreement to be entered into of even date herewith by the parties to this Agreement.

NOW IT IS HEREBY AGREED as follows:-

1. Assignment

The Assignor hereby assigns to the Assignees as joint owners the entire right, title and interest of the Assignor in and to the Patent Applications and any patents or other similar forms of protection granted pursuant to the Patent Applications together with the right to recover and to take all such proceedings as may be necessary for the

recovery of damage and other forms or relief in respect of all infringements of the Patent Applications whether taking place before or after the date of this Assignment.

2. Further Assurance

Each party agrees generally to sign, seal, execute and deliver all documents, deeds, licences and agreements and to do all acts and things which may be required or may be deemed necessary that any party for giving effect to this Assignment including, without limitation, entry into instruments confirmatory of such rights for registration with appropriate authorities anywhere in the world.

3. Governing Law

This Agreement shall be governed by Scots Law and the parties agree to submit to the non exclusive jurisdiction of the Scottish Courts: IN WITNESS WHEREOF these presents consisting of this and the preceding page together with the Schedule annexed hereto are executed as follows:-

Subscribed for and on behalf of BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL by Scott McGregor Lawrie their duly authorised signatory at London on 26th March 1998 before the following witness:-

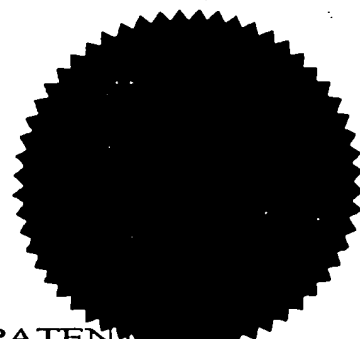
Witness: Justine A Strong
 Full Name: JUSTINE ANN STRONG
 Address: 12, ST VINCENT PLACE
GUSGOW
 Occupation: TRAINEE SOLICITOR

Scott Lawrie
 Authorised Signatory

Subscribed for and on behalf of THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD by Dr Anthony Richard Burne, duly authorised signatory at London on 26th March 1998 before the following witness:-

Witness: Marylyn Wicks
 Full Name: MRS. MARYLYN WICKS
 Address: ST. CHRISTOPHER HOUSE
SOUTHWARK ST, LONDON
 Occupation: CIVIL SERVANT.

Dr Burne
 Authorised Signatory



Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by Professor
Grahame John Bulfield, Director and Chief Executive, at Roslin on 7th April
1992 before the following witness:-

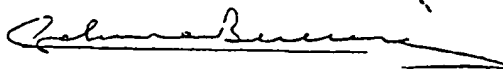
Witness: Cian A. Noh

Full Name: CAROL ANN NEILSON

Address: 12 ST VINCENT PLACE

GLASGOW

Occupation: SOLICITOR





This is the Schedule referred to in the Assignment by (1) Roslin Institute (Edinburgh) in favour of (2) Roslin Institute (Edinburgh); The Minister of Agriculture, Fisheries and Food; and Biotechnology and Biological Sciences Research Council

1. Unactivated Oocytes and Cytoplasm Recipients for Nuclear Transfer (MAGIC)

Filing Date	Priority Date	Country	Application No
30 th August 1996	31 st August 1995	International	PCT/GB96/02098
30 th August 1996	31 st August 1995	South Africa	96/7383
30 th August 1996	31 st August 1995	USA	08/803,165

International Patent Application - proceeding in:

Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

2. Quiescent Cell Populations for Nuclear Transfer (Quiescence)

Filing Date	Priority Date	Country	Application No
30 th August 1996	31 st August 1995	International	PCT/GB96/02099
30 th August 1996	31 st August 1995	South Africa	96/7390
30 th August 1996	31 st August 1995	USA	08/802,282

International Patent Application - proceeding in:

Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

Scott M. Levine

Alma

Robert M. Levine
RECORDED: 05/29/1998

PATENT
REEL: 9220 FRAME: 0256



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 21, 2006

PTAS
FINNEGAN, HENDERSON, FARABOW, GARRETT &
LLP
901 NEW YORK AVENUE, NW
WASHINGTON, DC 20001-4413***700250393A***

700250393A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 03/14/2006

REEL/FRAME: 017336/0136
NUMBER OF PAGES: 10BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 9960.0002-02

ASSIGNOR:

ROSLIN INSTITUTE (EDINBURGH)

DOC DATE: 06/30/2003

ASSIGNOR:

SECRETARY OF STATE FOR
ENVIRONMENT, FOOD & RURAL
AFFAIRS

DOC DATE: 06/30/2003

ASSIGNOR:

BIOTECHNOLOGY AND BIOLOGICAL
SCIENCES RESEARCH COUNCIL
(BBSRC)

DOC DATE: 05/22/2003

017336/0136 PAGE 2

ASSIGNEE:

ROSLIN (EDINBURGH)

ROSLIN

MIDLOTHIAN, EH25 9PS, UNITED
KINGDOM

SERIAL NUMBER: 08802282 FILING DATE: 02/19/1997
PATENT NUMBER: 6147276 ISSUE DATE: 11/14/2000
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER IN THE PRODUCTION
OF NON-HUMAN MAMMALS AND NON-HUMAN MAMMALIAN EMBRYOS

SERIAL NUMBER: 08803165 FILING DATE: 02/19/1997
PATENT NUMBER: 6252133 ISSUE DATE: 06/26/2001
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF NUCLEI FROM
QUIESCENT AND NON-QUIESCENT CELLS WHILE MAINTAINING CORRECT PLOIDY

SERIAL NUMBER: 09225233 FILING DATE: 01/04/1999
PATENT NUMBER: ISSUE DATE:
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09658862 FILING DATE: 09/08/2000
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09650194 FILING DATE: 08/29/2000
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09650285 FILING DATE: 08/29/2000
PATENT NUMBER: 6525243 ISSUE DATE: 02/25/2003
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF QUIESCENT CELL
NUCLEI WHILE MAINTAINING CORRECT PLOIDY

SERIAL NUMBER: 09973701 FILING DATE: 10/11/2001
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09989125 FILING DATE: 11/21/2001
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09989128 FILING DATE: 11/21/2001
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09989126 FILING DATE: 11/21/2001
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10118337 FILING DATE: 04/09/2002

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

017336/0136 PAGE 3

SERIAL NUMBER: 10151304 FILING DATE: 05/21/2002
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10151305 FILING DATE: 05/21/2002
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10190611 FILING DATE: 07/09/2002
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10190617 FILING DATE: 07/09/2002
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10234854 FILING DATE: 09/05/2002
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10914161 FILING DATE: 08/10/2004
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10915338 FILING DATE: 08/11/2004
PATENT NUMBER: ISSUE DATE:
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10909845 FILING DATE: 08/03/2004
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 11068903 FILING DATE: 03/02/2005
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 08802282 FILING DATE: 02/19/1997
PATENT NUMBER: 6147276 ISSUE DATE: 11/14/2000
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER IN THE PRODUCTION
OF NON-HUMAN MAMMALS AND NON-HUMAN MAMMALIAN EMBRYOS

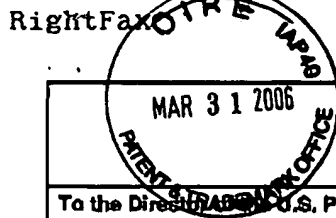
SERIAL NUMBER: 08803165 FILING DATE: 02/19/1997
PATENT NUMBER: 6252133 ISSUE DATE: 06/26/2001
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF NUCLEI FROM
QUIESCENT AND NON-QUIESCENT CELLS WHILE MAINTAINING CORRECT PLOIDY

SERIAL NUMBER: 09650285 FILING DATE: 08/29/2000

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF QUIESCENT CELL
NUCLEI WHILE MAINTAINING CORRECT PLOIDY

017336/0136 PAGE 4

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

RECORDATION COVER SHEET
PATENTS ONLYU.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 9960.0002-02
Attorney Customer Number: 22,852To the Director, U.S. Patent and Trademark Office:
Please record the attached original documents or copy thereof.

Mail Stop Assignment Recordation Services

1. Name of conveying party(ies):
(1) Roslin Institute (Edinburgh) (Dated: June 30, 2003)

2. Name and address of receiving party(ies):

Name: Roslin (Edinburgh)

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No
See Attachment A

Internal Address: Roslin

3. Nature of conveyance:

Street Address:

☒ Assignment☐ Merger

City: Midlothian, EH25 9PS

☐ Security Agreement☐ Change of Name

State: The United Kingdom Zip Code: [Text]

☐ Joint Research Agreement☐ Government Interest Assignment

Additional name(s) & Address(es) attached?

☐ Executive Order 8494, Confirmatory License☐ Other:☐ Yes ☒ NoExecution Date: [Date(s)]: (1) June 30, 2003
(2) June 10, 2003
(3) May 22, 2003

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: [Type appropriate information]

A. Patent Application Number(s):

08/802,282
08/803,185

B. Patent Number(s):

6,147,276
6,252,133
6,525,243Additional numbers attached? ☒ Yes See Attachment B ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

6. Total number of applications and patents involved:
23

Name:

7. Total fee (37 CFR 1.21(h) and 3.41): \$40

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

☐ Enclosed (Please charge deficiency or credit overpayment to deposit account 08-0916)

Street Address: 801 New York Avenue, N.W.

☒ Authorized to be charged to deposit account

City: Washington, D.C.

State: Zip: 20001-4413

8. Deposit Account No.: 08-0916

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Signed: 

Salvatore J. Arrigo, Reg. No. 48,063

3/14/06
Date

Total number of pages including cover sheet, attachments and documents: 10

1. (continued) Attachment A: Additional Conveying Parties

- (2) Secretary of State for Environment, Food & Rural Affairs (**Dated: June 10, 2003**)
("The Secretary of State") acting through the
Department for the Environment, Food & Rural Affairs ("DEFRA")
formerly known as the Ministry for Agriculture Fisheries and Food ("MAFF")
- (3) Biotechnology and Biological Sciences Research Council ("BBSRC")
(**Dated: May 22, 2003**)

4. (continued) Attachment B Patent Application Nos.**A. U.S. Patent Application/Serial No.**

09/225,233
09/658,862
09/650,194
09/650,285
09/973,701
09/989,125
09/989,128
09/989,126
10/118,337
10/151,304
10/151,305
10/190,611
10/190,617
10/234,854
10/914,161
10/915,338
10/909,845
11/068,903

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